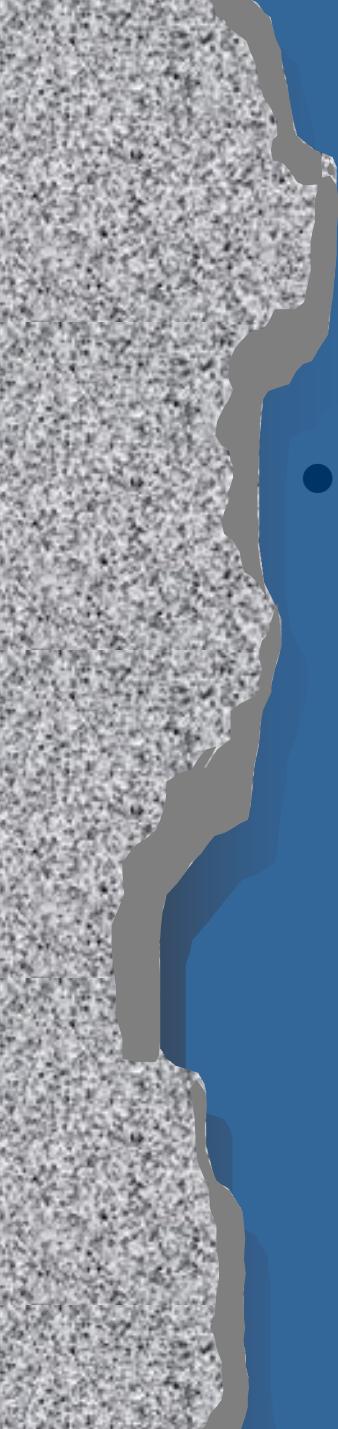


IRAS

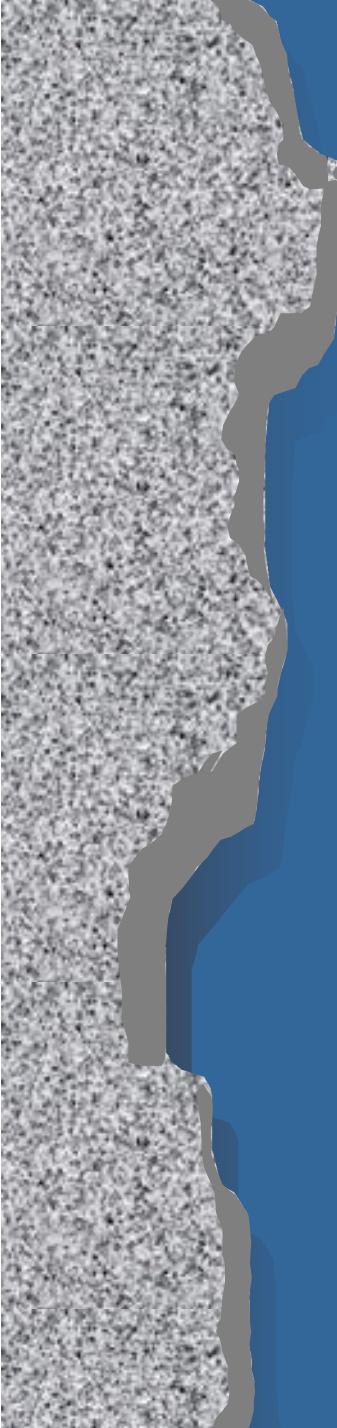
In-situ Radionuclide Assay System

Technical Contact: John R. Giles, Lockheed Martin
Idaho Technologies Co. (208)526-4158



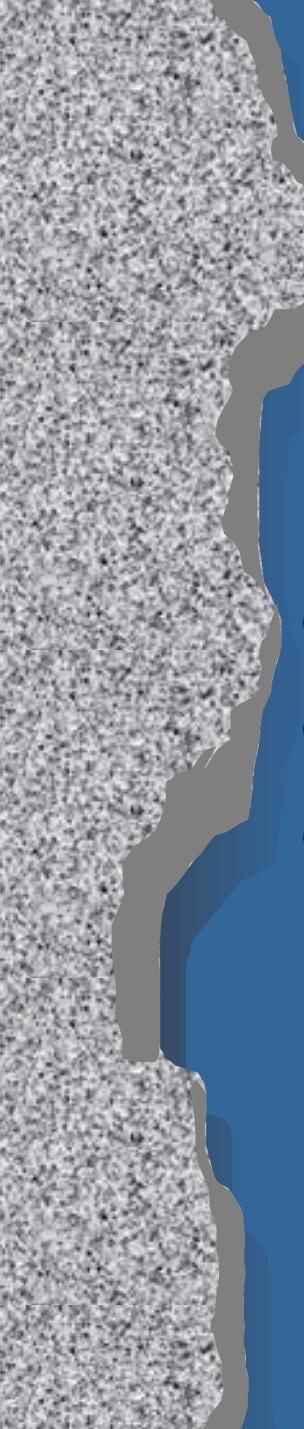
Current & Future Capabilities

- Current
 - Gross Gamma
 - Spectral Gamma
 - Gross Beta
 - Strontium-90
 - Uranium-238
- Future
 - Gross Alpha
 - Alpha Spectroscopy
 - L-shell x-ray for TRU



Limitations of Current Monitoring Techniques

- Expensive
- Time Consuming
- Waste Generation



In-Situ Radionuclide Analysis

- No Sample Collection or Preparation
- Near Real-Time Monitoring and Results
- Minimal Waste Generation